

What is claimed is:

1. A three-wheel vehicle comprising:

a) a front wheel assembly, said front wheel assembly having a single front wheel disposed thereon to permit said front wheel to turn so as to steer the three-wheel vehicle, said front wheel having a horizontal axle centrally disposed therein;

b) a rear main frame, said rear main frame having two rear wheels disposed thereon, wherein said rear wheels are disposed on opposite ends of an axle member and a tongue member extends forwardly midway from said axle, said tongue having a forward end thereon to permit attachment of the rear main frame to the three-wheel vehicle;

c) a means for connecting said forward end of said tongue member to said front wheel assembly whereby the front wheel assembly is rotatably disposed on the tongue of the rear main frame.

2. The apparatus of Claim 1 further comprising a pair of handles disposed on said rear main frame to permit a user to grasp thereto with their hands.

3. The apparatus of Claim 1 further comprising a pair of footrests disposed on said rear main frame to permit a user to place their feet thereon.

4. The apparatus of Claim 1 further comprising means for adjusting said pedal assembly and said front wheel assembly in a longitudinal direction with respect to said seat to permit a user to vary the distance from the seat to the pedal assembly and the front wheel assembly.

5. The apparatus of Claim 4 wherein said means for adjusting said front wheel assembly comprises:
- a) a steering pivot column, said column being slightly inclined toward the rear of the vehicle, said column having a first upper end and a second lower end, wherein a pair of radially opposed arms extend away from said second lower end thereby forming a left and a right arm;
 - b) a primary extension clamp extending downwardly from each of said radially opposed arms, said primary extension clamp having a first upper end and a second lower end, said first upper end of said primary extension clamp being fixedly pivotally connected to said radially opposed arm to permit the primary extension clamp to pivot in the vertical plane about the radially opposed arms and thereby move the front wheel in a longitudinal direction;
 - c) a front wheel column extending downwardly from each of said primary extension clamps, said front wheel column having a first upper end and a second lower end, said first upper end of said front wheel column being fixedly pivotally connected to said second lower end of said primary extension clamp to permit the front wheel column to pivot in the vertical plane about the lower end of the primary extension clamps and thereby move the front wheel in a longitudinal direction; and
 - d) a front wheel arm extending forwardly from each of said front wheel columns, said front wheel arm having a first end and a second end, said first end of said front wheel arm being fixedly slidably disposed onto said front wheel column and said second end of said front wheel arm to be fixedly disposed onto said axle of said front

wheel to thereby allow the front wheel to be moved up or down with respect to the front wheel column.

6. The apparatus of Claim 4 wherein said means for adjusting said pedal assembly comprises:

a) a pedal extension clamp extending upwardly from each of said second lower ends of primary extension clamps, said pedal extension clamp having a first lower end and a second upper end, said first lower end being fixedly pivotally connected to said second lower end of said primary extension clamp and said first upper end of said front wheel column to permit the pedal extension clamp to pivot in the vertical plane about the lower end of the primary extension clamp and thereby move the pedal assembly in a longitudinal direction;

b) a pedal column extending upwardly from each of said pedal extension clamps, said pedal column having a first lower end and a second upper end, said first lower end being fixedly pivotally connected to said second upper end of said pedal extension clamp to permit the pedal column to pivot in the vertical plane about the second upper end of the pedal extension clamp and thereby move the pedal assembly in a longitudinal direction; and

c) a pedal U-fork extending upwardly from each of said pedal columns, said pedal U-fork having a first lower end and a second upper end, said first lower end fixedly connected to each of said second upper ends of the pedal column, said second upper end having a single member fixedly connected to said pedal assembly.

7. The apparatus of Claim 6 wherein said means for connecting said forward end of said tongue member to said front wheel assembly comprises:

a) wherein said forward end of said tongue member has a steering pivot slot therein; and

b) wherein said steering pivot column is rotatably disposed in said steering pivot slot to permit connection of the rear main frame to the front wheel assembly.

8. The apparatus of Claim 7 wherein said seat further comprises:

a) a seat frame clamp, said seat frame clamp being fixedly connected to said steering pivot column;

b) a generally horizontal seat frame having a bottom seat disposed thereon for receiving a user's buttocks, said seat frame having a first front end and a second rear end, said first front end of said seat frame being fixedly pivotally connected to said seat frame clamp to permit the rear end of the seat frame to pivot up and down;

c) a generally vertical back seat frame having a back seat disposed thereon to receive a user's back, said back seat frame having a first lower end and a second upper end; and

d) a pivoting joint pivotally connecting said second rear end of said seat frame and said first lower end of said back seat frame to permit the back seat frame to pivot with respect to the seat frame.

9. The apparatus of Claim 8 wherein there are a pair of pivoting joints connecting said seat frame to said back seat frame.

10. The apparatus of Claim 9 wherein said chain drive further comprises:

- a) at least one sprocket disposed on said axle of said front wheel for cooperation with said pedal assembly wherein a chain drivingly connects said sprocket and said pedal assembly; and
- b) a chain support arm having a chain guard and a pair of roller arms, said chain guard disposed adjacent to said roller arms, further a chain roller disposed on each of said roller arms to permit engagement and tightening of a chain by each of said chain rollers.

11. The apparatus of Claim 10 further comprising means for movably mounting said bottom seat and said back seat whereby the bottom seat and the back seat are fixed together and are rotatably attached to the rear main axle to partially rotate in a vertical plane perpendicular to the longitudinal axis of the vehicle.

12. The apparatus of Claim 1 further comprising adjustment means for adjusting the camber angle of said rear wheels.

13. The apparatus of Claim 1 further comprising adjustment means for bringing said rear wheels into general alignment with said axle.

14. The apparatus of Claim 1 further comprising folding means disposed on said axle for bringing each of said rear wheels into general alignment with said front wheel.

15. The apparatus of Claim 1 further comprising shock absorber means supporting said rear wheels.

16. A three-wheel vehicle comprising:

- a) a front wheel assembly, said front wheel assembly having a single front wheel disposed thereon to permit said front wheel so as to steer the three-wheel vehicle, said front wheel having a horizontal axis centrally disposed therein;
- b) a rear main frame, said rear main frame having two rear wheels disposed thereon, said rear main frame having a forward end thereon to permit attachment of the rear main frame to the three-wheel vehicle;
- c) a means for connecting said forward end of said rear main frame to said front wheel assembly whereby the front wheel assembly is rotatably disposed relative to said rear main frame;
- d) a seat support rotationally mounted relative to said rear frame member;
- e) a seat mounted on said seat support; and
- f) connection means connecting said seat support and said front wheel assembly whereby rotation of said seat relative to said rear main frame rotates said front wheel assembly for steering control of said three-wheel drive.

17. The apparatus of Claim 16 wherein said support means comprises pivotal support means.

18. The apparatus of Claim 16 wherein said connection means connecting said seat support and said front wheel assembly comprises a pair of link members.

19. The apparatus of Claim 16 wherein said connection means connecting said seat support and said front wheel assembly comprises a gear train.

20. The apparatus of Claim 19 wherein said gear train comprises a first gear connected to said front wheel assembly, an idler gear in mesh with said first gear, and a second gear in mesh with said idler gear with said second gear connected to said seat.

21. The apparatus of Claim 16 wherein said rear main frame comprises a generally triangular member.

22. The apparatus of Claim 16 wherein said rear main frame comprises a pair of angularly disposed members.

23. The apparatus of Claim 16 wherein said front wheel assembly comprises an upwardly directed fork member.

24. The apparatus of Claim 16 wherein said front wheel assembly comprises a downwardly direct fork member.

25. The apparatus of Claim 24 further comprising a downwardly directed seat support shaft connected to said front wheel assembly and an upwardly directed seat support shaft connected to said downwardly directed seat support shaft with said upwardly directed seat support shaft having an upwardly directed end and with said seat connected to said upwardly directed end.

26. The apparatus of Claim 16 further comprising first gas spring means disposed supporting said seat and second gas spring means disposed supporting said front wheel assembly.

27. The apparatus of Claim 26 further comprising compressor means mounted on said main frame and tubular connection means connecting said compressor means and said first and said second gas spring means to pressurize said first and said second gas spring means.

28. The apparatus of Claim 27 wherein said rear main frame comprises a sealed hollow tubular assembly and first connection means connecting said compressor means and said sealed hollow tubular assembly for the purpose of pressurizing said sealed hollow tubular assembly, and second connection means connecting said first and said second gas spring means to said sealed hollow tubular assembly.